

Lab Instructions

1. Labs will not be returned
2. Read lab before beginning
3. Each person must prepare a lab report
4. Minus one mark for each day late

FORMAT

- ♦ 1. Aim or purpose (statement of what).
Write out as given in lab script.
- ♦ 2. Theory/ Introduction/ Background.
Write a paragraph including a summary of what you already know about this topic. Must be in paragraph form using full sentences.

- ♦ 3. Apparatus. Write where the list is found, ex. See lab script.
- ♦ 4. Procedure. Write where the procedure can be found, ex. See page 22 in lab manual

ALL OF THE ABOVE SHOULD BE ON
PAGE 1 OF YOUR LAB REPORT.

The second page should be **PLAIN WHITE PAPER**

- ♦ Apparatus Diagram should be drawn with a pencil using a ruler. It should include all of the apparatus as you would use it; not just the bits and pieces. It must have a meaningful title and be labeled on the right-hand side with parallel, horizontal lines with uniform endpoints. It should cover at least 1/2 the page

- ♦ 5. Observations and results.

Includes data tables and descriptions of results where appropriate. All data should have correct units and significant digits. Should not include calculations. (1 sample calculation for each new formula should be included in the section titled “sample calculations”)

- ♦ 6. Analysis questions. Includes any questions that will be answered to assist in reaching your conclusion
- ♦ 7. Conclusion. The most important part of the lab!!! Has 3 major components. First, this is a statement that answers the aim. Should give numerical information wherever available. Secondly, it will almost always include % error and/or %difference. Thirdly, you must include specific sources of errors, ie, what was difficult to measure or inaccurate in this lab. Do not include calculation error or comments about your lab partners!

- ♦ 8. Discussion or Application questions. Questions which follow the completion of the lab. They apply what you have learned to a new situation. Some labs have only 1 type of questions (analysis or application)
- ♦ 9. Sample Calculations. Includes 1 example of each new type of calculation. Should show formula, fill in of real data and final calculated answer for each different formula used in the lab.

Lab must have a title page with
the following format:

Centered Title

Date

Physics 112

Your Name